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The Stewart platform manipulator: a review - all 4 versions »

B Dasgupta, TS Mruthyunjaya - Mechanism and Machine Theory, 2000 - Elsevier
... Section 11. Geng and Haynes [135] studied the **Stewart platform** with legs of magnetostrictive material as a vibration **isolation** system. ...

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Six-degree-of-freedom active vibration isolation using a Stewart platform mechanism - all 4 versions »

Z Geng, LS Haynes - Journal of Robotic Systems, 1993 - doi.wiley.com
... part of the study results, which includes a new Terfenol-D actuator design and analysis, a design of a **Stewart platform** as a vibration **isolation** device, and ...

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[CITATION] Six degree-of-freedom active vibration isolation using Stewart platform manipulator

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Six degree-of-freedom active vibration control using the Stewartplatforms - all 3 versions »

ZJ Geng, LS Haynes, IA Inc, MD Rockville - Control Systems Technology, IEEE Transactions on, 1994 - ieeexplore.ieee.org

... Fig. 6. IA's prototype of a **stewart platform** based six DOF vibration **isolation** system. IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY, VOL. 2, NO. ...

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The application of the Stewart platform in large spherical radio telescopes - all 2 versions »

YX Su, BY Duan - Journal of Robotic Systems, 2000 - doi.wiley.com

The Application of the **Stewart Platform** in Large ... A typical **Stewart platform** consists of six vari- able-length actuators connecting a mobile plate to a base. ...

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High speed tracking control of Stewart platform manipulator viaenhanced sliding mode control

NI Kim, CW Lee - Robotics and Automation, 1998. Proceedings. 1998 IEEE ..., 1998 - ieeexplore.ieee.org

... of the 1998 IEEE International Conference on Robotics & Automation Leuven, Belgium May 1998 High Speed Tracking Control of **Stewart Platform** Manipulator via ...

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An Intelligent Control System for Multiple Degree-of-Freedom Vibration Isolation - all 3 versions »

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... **isolation**, suppression and ultra precision articulation over a prescribed frequency



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HA Akeel... - US Patent 5,987,726, 1999 - Google Patents

... utilized for flight simulators, well known as the "**Stewart Platform**"—Stewart, The ... Each slider member includes a **shock absorber** and is connected to position ...

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[Modeling and analysis on the internal impact of a **Stewart platform** utilized for spacecraft docking - all 2 versions »](#)

SH Lee, BJ Yi, SH Kim, YK Kwak - Advanced Robotics, 2001 - Springer

... It is assumed that a **Stewart platform** is attached to one end of a spacecraft to ... The docking platform can absorb the **shock** by inertial effect, not by damping or ...

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Y Shinomiya, J Nomura, Y Yoshida, T Kimura - Proceedings of the ACM symposium on Virtual reality software ..., 1997 - portal.acm.org

... Figure 5. The basic structure of **Stewart Platform** ... approach switches attached to soft **absorbers**) are attached ... A sensor (**shock sensor**) which senses small shocks ...

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DL Edberg, DJ Schenck - US Patent 5,844,815, 1998 - Google Patents

... extending toward one another function similar to an air **shock absorber** whereby the ... 90 along with the separate tubular enclosures 92 form a "**Stewart Platform**". ...

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AJ Crewe - Philosophical Transactions: Mathematical, Physical and ..., 2001 - journals.royalsoc.ac.uk

... preload section in vertical actuators **shock absorbers** suspension system: coil or air springs foundations ... Figure 9. A typical example of a **Stewart platform**. ...

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SB Choi, DW Park, MS Cho - Mechatronics, 2001 - Elsevier

... engineering applications. These include **shock absorbers**, engine mounts, clutch/brake systems, intelligent structures and valves. When the ...

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... Nanua et al., "Direct Kinematic Solution of a **Stewart Platform**", 1989 IEEE Intl.



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P Nanua, KJ Waldron, V Murthy - Robotics and Automation, IEEE Transactions on, 1990 - [ieeexplore.ieee.org](#)

Page 1 S R Fig. 1. Triple arm mechanism. Fig. 2. General **Stewart platform** (AA, FF are variable lengths). B1 Fig. 3. Special form of the **Stewart platform**. ...

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R Bostelman, J Albus, N Dagalakis, A Jacoff, J ... - Proceedings of the 5th International Symposium on Robotics ..., 1994 - [isd.mel.nist.gov](#)

... have proved much of the theory and performance of a **Stewart Platform** parallel link ... Since the work platform needs only three **suspension** points for the six cables ...

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EJ HAUG, FA ADKINS, CM LUH - Journal of mechanical design(1990), 1998 - [cat.inist.fr](#)

... Examples involving a planar **Stewart platform** with a dome attached and the wheel assembly of a vehicle **suspension** system in three dimensions are analyzed ...

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... supporting chain. These conditions are satisfied by many manipulator systems, particularly those based on the **Stewart platform**. A ...

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[The experimental performance of a mobile manipulator control algorithm - all 6 versions »](#)

NAM Hootsmans, S Dubowsky, PZ Mo - Robotics and Automation, 1992. Proceedings., 1992 IEEE ..., 1992 - [ieeexplore.ieee.org](#)

... k and b are, respectively, the stiffness and damping of the vehicle **suspension**. ... 8.

The VES is a six DOF hydraulically actuated **Stewart platform** developed for ...

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NG Dagalakis, JS Albus, RV Bostelman, J Fiala - Robotics and Remote Handling Proceedings, Fifth Topical ..., 1993 - [isd.mel.nist.gov](#)

... The joystick was another small size **Stewart platform** mechanism shown in Figure 3.

The ... of the two platforms and the coordinates of the **suspension** points, with ...

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R Gexue, L Qiu Hai, Z Zhou - Astrophysics and Space Science, 2001 - Springer

... Parallel **suspension** and driving cables are arranged for increasing the rotational ...

The **Stewart platform** (Stewart, 1965) has proved to be a high precision ...


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